

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PATENT APPLICATION OF: Ittipiboon et al.

OUR FILE NO: 102-3 US

SERIAL NUMBER: New Application

GROUP: New Application

FILED: New Application

EXAMINER: New Application

TITLE: ULTRA WIDEBAND ANTENNA

Information Disclosure Statement

July 23, 2003

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Transmitted herewith is an Information Disclosure Statement (Form PTO-1449) in the above-captioned application with references.

Certification

X This Information Disclosure Statement is submitted within three months of:

- (i) the filing date of the above-identified U.S. National Patent application, or
- (ii) the date of entry into the U.S. National Stage of the above-identified International Application, or
- (iii) the date of entry into the U.S. National Stage of the International Application that has been assigned the above-identified U.S. Patent application number, whichever applies.

\_\_\_\_\_ This Information Disclosure Statement is submitted prior to the mailing date of the first Office Action on the merits received by Applicant in the above-identified application.

\_\_\_\_\_ This Information Disclosure Statement is submitted after three months from

- (i) the filing date of the above-identified U.S. National Patent application, or
- (ii) after three months from entry into the U.S. National Stage of the above-identified International Application; or
- (iii) the date of entry into the U.S. National Stage of the International Application that has been assigned the above-identified U.S. Patent application number, whichever applies; and after the mailing date of the first Office Action on the merits of the above-identified application, but prior to issuance of the earlier of any Final Action or Notice of Allowance sent in such application. The certification under 37 C.F.R. §1.97(e) is submitted separately or below, or the fee required under 37 C.F.R. §1.97(c) and § 1.17(p) is submitted herewith.

\_\_\_\_\_ This Information Disclosure Statement is submitted after the earlier of the mailing date of a final rejection or Notice of Allowance sent in this application but before payment of the Issue Fee. The certification required under 37 C.F.R. § 1.97(e) is submitted separately or below. A petition to the Commissioner and the appropriate fee pursuant to §1.17(i) (1) are submitted herewith.

\_\_\_\_\_ A certification under 37 C.F.R §1.97 is submitted herewith separately from this paper.

\_\_\_\_\_ It is hereby certified that each item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.

\_\_\_\_\_ No item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this statement.

**The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account No: 20-0345.**

Very truly ours,



Regn No: 38,793

**Please associate this application with Customer No: 24949**

Neil Teitelbaum  
3000 Merivale Road  
Ottawa, Ontario  
Canada K2G 6N7

Tel: (613) 843-3000 Ext. 2690  
Fax: (613) 823 9972  
Email: [neil.teitelbaum@jdsu.com](mailto:neil.teitelbaum@jdsu.com)

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<b>Form PTO 109</b>  <b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>  Information Disclosure Statement by Applicant	<b>ATTY. DOCKET NUMBER:</b> 102-3 US	<b>SERIAL NUMBER:</b> New Application
	<b>APPLICANT:</b> Ittipiboon et al.	
	<b>FILING DATE:</b> New Application	<b>GROUP:</b> New Application

**U.S. Patent Documents**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING APP
	5,940,036	Aug. 17, 1999	Oliver et al.	343	700 MS	
	6,147,647	Nov. 14, 2000	Tassoudji et al.	343	700 MS	

**Foreign Patent Documents**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 02/101879 A1	Dec. 19, 2002	WIPO	H01 Q	13/24		
	09331207 A (Patent Abstracts of Japan)	Dec. 22, 1997	Japan	H01 Q	9/30		
	2000286626 A (Patent Abstracts of Japan)	Oct. 13, 2000	Japan	H01 Q	1/38		

**Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)**

	P.V. Anob and G. Kumar, "Wide Band Modified Triangular Monopole Antennas", Proc. of the 8 <sup>th</sup> Int. Symp. On Microwave and Optical Tech., ISMOT 2001, Montreal, Canada, June 2001, pp. 169-172.
	S.M. Shum and K.M. Luk, "Stacked Annular Ring Dielectric Resonator Antenna Excited by Axi-Symmetric Coaxial Probe", IEEE Transactions on Antennas and Propagation, vol. 43, no. 8, August 1995, pp. 889-891.
	K.W. Leung, "General Solution of a Monopole Loaded by a Dielectric Hemisphere for Efficient Computation", IEEE Transactions on Antennas and Propagation, vol. 48, no. 8, August 2000, pp. 1267-1268.
	Darko Kajfez and Ahmed A. Kishk, "Dielectric Resonator Antenna - Possible Candidate for Adaptive Antenna Arrays", University of Mississippi, USA.
EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant	